

1794

Resurvey of portions of
S. & E. Boundaries
of

CAMP LOWELL

MILITARY

RESERVATION

1794

1794

4-671

BOOK 1794

FIELD NOTES

GENERAL LAND OFFICE.

1794

1794

Field Notes
of the resurvey of the
South boundary and
portion of the East
boundary of
Camp Lowell
Military Reservation
Pima County, Arizona
as resurveyed by
Philip Contzen
U. S. Deputy Surveyor

Under his Contract No 43
Dated February 11th 1897

Survey commenced July 2, 1897
Survey completed Sept. 22, 1897

BOOK 179A

*Index**Camp Lowell*

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South boundary

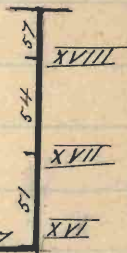
14E · 15E

BOOK 1794

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Military Res.

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East boundary

South boundary

S. E. cor.

Resurvey of the S. boundary of

Owing to the fact that a number of settlers, living within Camp Lowell Military Reservation have informed me that most of the corners of the South boundary of the Camp Lowell ^{Reservation} Military have disappeared, and as I am instructed to close exterior and subdivisional lines on said boundary, I therefore proceed to satisfy myself of the condition of said boundary, before commencing the survey of Tps 14 S. Rs 15 and 16 E. On July 2. 1897 I pro-

Camp Lowell Military Reservation

ceed to the S. W. cor. of
Camp Lowell Military
Reservation, which is a
decayed post with
marks obliterated, I destroy
all traces of the old cor.
and reestablish it at
the same point, as follows.
Set a lava stone $16 \times 8 \times 6$
ins., 12 ins. in the ground
for the S. W. cor. and 5th
Mile cor. of the Camp
Lowell Military Reservation,
marked "U. S. M. R. V" on
N. face, dig a pit $24 \times 24 \times 12$
ins. N. and E. of cor., 3 ft.
dist., and raise a mound
of earth 4 ft. base, 2 ft.
high, W. of cor. —

Resurvey of the S. boundary of
 July 2. At 9^h 5^m A.M.,
 l. m. t., I set off $32^{\circ}13'$
 on lat. arc, $23^{\circ}1'$ N on
 the decl. arc, and de-
 termine, a true meridian
 with the solar, at the
 above described cor.

Thence I run East
 on a blank line along
 the South boundary
 of Camp Lowell Military
 Reservations

39.98	Faint traces of $\frac{1}{2}$ Mile cor. 11 lks. N
80.01	Faint traces of 6 th Mile cor. 23 lks. N
120.05	Faint traces of $\frac{1}{2}$ Mile cor. 34 lks. N
160.09	Faint traces of 7 th Mile cor. 47 lks. N
200.09	Faint traces of $\frac{1}{2}$ Mile cor. 60 lks. N
240.15	Faint traces of 8 th Mile cor. 71 $\frac{1}{2}$ lks. N
280.11	Faint traces of $\frac{1}{2}$ Mile cor. 83 lks. N
320.09	Faint traces of 9 th Mile cor. 95 $\frac{1}{2}$ lks. N

Camp Lowell Military Reservation

360.05	Faint traces of $\frac{1}{2}$ Mile cor., 107 lks N
400.07	Faint traces of 10 th Mile cor., 121 lks N
440.05	Faint traces of $\frac{1}{2}$ Mile cor., 132 lks N
480.10	Faint traces of 11 th Mile cor., 143 lks N
520.05	Faint traces of $\frac{1}{2}$ Mile cor., 144 lks N
560.02	Faint traces of 12 th Mile cor., 143 $\frac{1}{2}$ lks N
599.98	Faint traces of $\frac{1}{2}$ Mile cor., 144 $\frac{1}{2}$ lks N
639.89	Faint traces of 13 th Mile cor., 144 lks N
669.77	Faint traces of $\frac{1}{2}$ Mile cor., 143 lks N
719.70	Faint traces of 14 th Mile cor., 145 lks N
759.66	Faint traces of $\frac{1}{2}$ Mile cor., 143 lks N
799.56	Faint traces of 15 th Mile cor., 143 lks N
839.65	Faint traces of $\frac{1}{2}$ Mile cor., 145 lks N
879.54	The S.E. cor., also the 16 th Mile cor. of Camp Lowell Military Reservation, which is a pine post 4 ins. sq., 4 ft above ground and in a mound of stone,

Resurvey of the S. boundary of
marked and witnessed
as described by the
Surveyor General.
✓ bears 145 $\frac{1}{2}$ S.

July 3. 1897

Finding only faint
traces of most of the
original corners and
some lying on the ground
considerable distance
from the original posi-
tion, I find it necessary
for the proper execution
of the survey of Tps. 14 S.
R's 15 and 16 E to resurvey
the S. boundary of
Camp Lowell Military
Reservation, I therefore

Camp Lowell Military Reservation

write to the Surveyor general for the necessary authority for the resurvey of said boundary and on Sept. 4.th 1897. I receive the same.

Survey commenced September 5th 1897 and executed with a Young and Sons light mountain transit N^o 5609 with a Smith's solar attachment.

The instrument was examined, tested on the true meridian at Tucson and found correct and was approved by.

Resurvey of the S. boundary of
the surveyor general
for Arizona, April 30, 1897
I begin at the S.E. cor
or the 5th Mile cor, as
heretofore described.

Latitude $32^{\circ}13'N$

Longitude $110^{\circ}53'W$.

In order to test the
solar apparatus, by
comparing the results
of observations on
the sun, made during
a. m. and p. m. hours,
with a true meridian,
determined by observations
on Polaris, I proceed
as follows:

At 3^h 15^m p. m.,
l. m. t., I set off $32^{\circ}13'N$

Camp Lowell Military Reservation

on the latitude arc; $6^{\circ}27'N$.
on the declination arc,
and mark the true
meridian thus determined
with the solar, by a
cross on a stone firmly
set in the ground, 5 chs
N. of the instrument
Sept. 5th 1897

Sept. 5th At 8^h 24^m P.M.
local mean time I observe
Polaris at eastern elonga-
tion, in accordance
with instructions in
the Manual and mark
the line thus determined,
by a tack driven in a
wooden plug set in the

Resurvey of the S. boundary of
 ground, 5 chains N. of
 my station. — Sept. 6th
 At 6^h 40^m A. M., ^{C. M. S.} I
 lay off the azimuth
 of Polaris, $1028'$ to
 the West and mark
 the true meridian thus
 determined, by cutting
 a small groove in the
 stone, ^{set} yesterday on which
 the true meridian falls
 0.15 ins. west of the mark
 determined by the solar
 At 9^h 10^m A. M., ^{C. M. S.} I set
 off $32^{\circ}13'$ N, on the
 lat. arc, $6^{\circ}11'$ N. on the
 decl. arc, and mark
 the true meridian de-
 termined with the

Camp Lowell Military Reservation

solar by a cross on
the stone already set
5 chs. N. of my station,
this mark falls 0.2 ins.
west of the true meridian,
established by the Polaris
observation. The solar
apparatus, by p. m.
and a. m. observations,
defines positions for
true meridians, about
0'.8" east, and 0'.11" west
of the meridian established
by the Polaris observation,
therefore, I conclude
that the adjustments
of ^{the} instrument are satis-
factory. The magnetic
bearing of the true

Resurvey of the S. boundary of
Chains

meridian, at 9^h 15^m

a. m. ^{l. m. t.} is N 12° 39' W;

the angle thus deter-
mined reduced by
the table, page 100, gives
the mean mag. decl.
12° 37' East.

From the 5th Mile cor,
the S. E. cor. of Camp
Lowell Military Reserva-
tion, I run
N 89° 50' E on S. bdy of
Camp Lowell Military
Reservation.

Over level land

39.98 Set a lava stone 16x8x6
ins., 12 ins., in the ground
for ½ Mile cor., marked
"U. S. M. R. ½" on N. face,

Camp Lowell Military Reservation

Chains

dig pits 18x18x12 ins, E.
and W. of stone, 3 ft. dist,
and raise a mound
earth 3½ ft. base, 1½
ft. high N. of cor.
Faint traces of old mound.

46.95 Old road, bears N.N.W. and S.S.E.

57.96 Dug wash, 8 lks. wide, course N.

80.01 Set a granite stone
18x10x8 ins, 12 ins, in
the ground, for 6th
Mile cor., marked
"U. S. M. R. VI" on N. face,
dig pits 24x18x12 ins,
E. and W. of stone, 3 ft.
dist, and raise a
mound of earth 4 ft.
base 2 ft. high N. of cor.
Faint traces of old mound
Land, level
Soil loam, 2nd rate

Resurvey of the S. boundary of
Chains

No timber, undergrowth
scattering greasewood,
mesquite and cholla

Nsq^o 50' E, on South bdy
Camp Lowell Military Reservation
Over gently rolling land

- 16.00 Dry wash 8 lks. wide, course N.W.
- 24.00 Enter greasewood undergrowth,
bears N and S.
- 38.45 Old road, bears N. N.W. and
S. S.E.
- 40.04 Set a mesquite post,
3 ft long, 3 ins. sq., with
marked stone, 24 ins. in
the ground for $\frac{1}{2}$ Mile
cor., marked "U. S. M. R. $\frac{1}{2}$ "
on N. face, from which
A palo verde 5 ins. diam

Camp Lowell Military Reservation

Chains

bears $S 54^{\circ} E$, 5 lks., dist.,
marked U. S. M. R. $\frac{1}{2}$ B. I.

A palo verde 10 ins. diam
bears $S 54^{\circ} W$, 5 lks. dist.,
marked U. S. M. R. $\frac{1}{2}$ B. I.

Dig pits $18 \times 18 \times 12$ ins.,
E. and W. of post, 3 ft.
dist., and raise a mound
of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$
ft. high N. of cor.

Faint traces of pits;
no marks on bearing tree
visible.

62.90 Dry wash, 6 lks. wide, course N

69.90 Dry wash, 8 lks. wide, course S. W

80.08 Set a granite stone
 $16 \times 10 \times 5$ ins., 11 ins. in
the ground for 7th Mile
cor., marked U. S. M. R. VII

Resurvey of the S. boundary

Chains

on N. face; from which
 a Palo verde 6 ins. diam.
 bears $N50\frac{1}{2}^{\circ}W$. 26 lks.
 dist., marked U.S.M.R.
 VII. B.T., No other tree
 within limits; dig
 pits $24 \times 18 \times 12$ ins. East
 W., 3 ft. dist., and raise
 a mound of earth, 4 ft
 base, 2 ft high N. of cor.
 The 2 bearing trees given
 in the original field notes
 have been chopped down;
 portions of the old post
 found lying on the ground
 4 chs. N. Easterly; faint
 mound visible. I destroy
 all traces of the cor.
 Land gently rolling

Camp Lowell Military Reservation
Chains

Soil, gravelly loam, 2nd rate
No timber; undergrowth
greasewood, palo verde
and mesquite.
giant and cholla cacti.

N. 89° 50' E on S. boundary
Camp Lowell Military Reservation
Over rolling land,
through scattering under-
growth.

- 16.00 Begin descent, bears N. W $\frac{1}{2}$ S. E
21.60 Dry wash, 10 lks. wide, course N
34.60 Dry wash, 10 lks. wide, course N. W.
40.00 Set a granite stone
16 x 8 x 8 ins., 11 ins. in the
ground for $\frac{1}{2}$ mile cor.,
marked "U. S. M. R. $\frac{1}{2}$ ", on
N. face; from which

Resurvey of the S. boundary
chains

A palo verde 6 ins. diam.
bears $N 70^{\circ} W$, 54 lks. dist,
marked U. S. M. R. $\frac{1}{2}$ B. F.

A palo verde 4 ins. diam.
bears $S 17^{\frac{3}{4}} W$ 43 lks. dist,
marked U. S. M. R. $\frac{1}{2}$ B. F.

Faint mound visible,
old bearing trees, given
in original field notes
have dissappeared, old
cor. post lying on the
ground at a point
 $N 5^{\circ} E$ 200 lks. I destroy
all traces of the old cor.

47.00 Dry wash 4 lks. wide, course $N. E$

51.60 Bottom of descent, bears
 $N. Westerly$ and $S. Easterly$
and to left bank of
"Pantano" Wash or river

of Camp Lowell Military Reservation

Chains

Set a Granite stone
 18x8x8 ins., 12 ins. in the
 ground, for meanders
 cor. of frac. sec. 17,
 marked M. R. on N.
 face and M. C. on E.
 face, from which a
 Palo verde 5 ins. diam.
 bears $N 34 \frac{3}{4}^{\circ} W.$, 148 lks.,
 dist., marked T. 14 S.
 R. 15 E. S. 17 M. R. M. C.
 B. T., no other tree within
 limits, dig a pit 36x36x12
 ins., 8 ft. W. of stone, and
 raise a mound of earth,
 4 ft. base, 2 ft. high,
 W. of cor.

64.00 To right bank of
 "Pantano" wash or river

Resurvey of the South boundary of
Chains

Set a lime stone $18 \times 8 \times 6$
ins., 12 ins. in the ground,
for meander cor. of
fractl. sec. 17, marked
M. R. on N. face, and
M. C. on W. face, from
which - A mesquite 6 ins.
diam., bears $S 5 \frac{1}{2}^{\circ} E$, 17
lks. dist., marked J. 14 S.
R. 15 E. S. 17 ^{M. R.} M. C. B. J.

A palo verde 4 ins. diam.,
bears $N 14^{\circ} E$, 71 lks. dist.,
marked J. 14 S. R. 15 E. S. 17
M. R. M. C. B. J.

80.06 Set a granite stone
 $16 \times 8 \times 6$ ins., 11 ins. in the
ground, for 8th mile
cor., marked U. S. M. R. VIII
on N. face, dig pits $24 \times 18 \times 12$

Camp Lowell Military Reservation

Chains

ins, E and W. of stone
3 ft. dist, and raise
a mound of earth
4 ft. base, 2 ft. high
N. of cor.

I established new cor
by faint traces of the
old stumps of bearing
trees.

Land rolling and level
Soil, loam, 1st and 2nd rate
No timber, under growth
greasewood, palo verde,
cats claw and mesquite
A few giant cactus.

N 89° 50' E on S. bdy of
Camp Lowell Military Reservation
Over level and rolling

Resurvey of the S. boundary of
Chains

land, through scattering
under growth

- 9.90 Dry wash, 10 lks. wide, course S.W.
- 10.50 Ascend
- 15.00 Top of ascent, bears N.E. $2\frac{1}{4}$ of S.W.
- ~~18.20 Dry wash, 4 lks. wide, course S.W.~~
- 22.50 Dry wash, 8 lks. wide, course N.W.
- 30.50 Dry wash, 6 lks. wide, course N.W.W.
- ~~37.80 Dry wash, 4 lks. wide, course N.W.~~
- 39.96 Set a linee stone 15x8x5
ins., 10 ins. in the ground
for $\frac{1}{2}$ Mile cor., marked
U. S. M. R. $\frac{1}{2}$ on N. face,
from which,
A palo verde, 6 ins. diam.
bears N $31\frac{3}{4}$ ° E, 138 lks.
dist., marked U. S. M. R.
 $\frac{1}{2}$ B. T.
A palo verde, 11 ins. diam.

Camp Lowell Military Reservation
Chains

bears $S69\frac{3}{4}^{\circ}W$. 176 lks.
dist, marked N. S. M. R. $\frac{1}{2}$
B. F.; dig pits $18 \times 18 \times 12$
ins., E. and W. of stone
3 ft. dist., and raise
a mound of earth
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high
N. of cor.

I found faint traces
of old mound, distance
to bearing tree given
in original notes is
wrong.

~~43.08 Dry wash, 7 lks. wide, course N.W.~~

~~62.60 Dry wash, 25 lks. wide, course
N. thence W.~~

~~68.13 Dry wash 4 lks. wide, course N.W.~~

72.00 Old road, bears N.W. and S.E.

79.94 Set a granite ^{stone} $18 \times 10 \times 8$

Resurvey of the S. boundary of
Chains

ins., 12 ins. in the ground
for 9th Mile cor., marked
"U. S. M. R. IX" on N. face;
dig pits 24 x 18 x 12 ins.
E. and W. of stone,
and raise a mound
of earth 4 ft. base, 2 ft.
high N. of cor.

I found faint traces
of mound; bearing
trees given in original
fieldnotes are decayed
Land level and rolling
Soil, sandy and gravelly loam,
2nd and 3rd rate

No timber; undergrowth
greasewood, palo verde
and cats claw.

Giant and cholla cacti.

Camp Lowell Military Reservation

Chains

$789^{\circ}50'E$ on S. boundary
of Camp Lowell Military
Reservation

Over rolling land
through scattering undergrowth

- 10.30 Dry wash, 10 lks. wide, course N.W.
- 26.25 Dry wash, 15 lks. wide, course N.W.
- 29.30 Dry wash, 10 lks. wide, course
Westerly, thence S.W.
- 31.50 Same dry wash, 10 lks. wide,
course N.W., thence Westerly
- 39.96 Set a granite stone
15 x 8 x 4 ins., 10 ins. in
the ground for $\frac{1}{2}$ Mile
Cor., marked U. S. M. R.
 $\frac{1}{2}$ on N. face, from
which
A palo verde, 8 ins. diam
bears $N 61^{\circ}4'E$, 129 lks. dist.

Resurvey of the S. boundary of
chainsmarked N. S. M. R. $\frac{1}{2}$ B. F.A palo verde 6 ins diam
bears S $55\frac{1}{2}^{\circ}$ W - 59 lks. dist,marked N. S. M. R. $\frac{1}{2}$ B. F.I found faint traces
of mound, old bearing
trees are decayed and
lying on the ground.~~44.76 Dry wash, 4 lks. wide, course
N. W.~~~~48.90 Dry wash, 3 lks. wide, course N. W.~~~~55.00 Dry wash, 3 lks. wide, course N. W.~~~~58.80 Dry wash, 10 lks. wide, course N. W.~~~~68.10 Dry wash, 8 lks. wide course N.~~~~70.40 Dry wash, 3 lks wide, course N. W.~~~~79.00 Dry wash, 35 lks. wide, course N. W.~~

79.98 Set a granite stone

16 x 10 x 6 ins, 11 ins. in

the ground for 10th

Camp Lowell Military Reservation

Chains

Mile cor., marked
 "U. S. M. R. X" on N. face,
 from which,

A palo verde, 10 ins. diam,
 bears $N70\frac{1}{4}^{\circ}E$ - 172 lks.
 dist.; marked U. S. M. R.
 X. B. T.

A palo verde 8 ins. diam.
 bears $N62\frac{1}{2}^{\circ}W$, 49 lks. dist.,
 marked U. S. M. R. X B. T.

Dig pits $24 \times 18 \times 12$ ^{ins} _^ Sand W.
 of stone 3 ft. dist., and
 raise a mound of
 earth 4 ft. base, 2 ft.
 high N. of cor.

I found faint traces
 of mound; old bearing
 trees given in the origi-
 nal fieldnotes have

Resurvey of the S. boundary
Chains

dissappeared.

Land rolling

Soil, gravelly loam;

3rd rate

No timber; undergrowth
palo verde, cats claw, mesquite

Giant and cholla cacti.

N89°50'E on S. boundary
of Camp Lowell Military
Reservation

Over rolling land,
through undergrowth

- 7.07 ~~Dry wash, 4 lks. wide, course N.W.~~
- 15.50 Dry wash, 20 lks. wide, course N.E
- 27.40 Dry wash, 12 lks. wide, course N.W.
- 39.35 Dry wash, 20 lks. wide, course N.
- 39.75 Dry wash, 10 lks. wide, course N.E
- 39.98 Set a granite stone

of Camp Lowell Military Reservation

Chains

18 x 8 x 3 ins., 12 ins. in the ground for $\frac{1}{2}$ mile cor., from which

A mesquite 4 ins. diam. bears $S 5^{\circ} E$, 124 lbs. dist., marked U. S. M. R. $\frac{1}{2}$ B. F.

A mesquite 8 ins. diam. bears $S 50^{\frac{3}{4}}^{\circ} W$, 85 lbs. dist., marked U. S. M. R.

$\frac{1}{2}$ B. F., dig pits 18 x 18 x 12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

I found faint traces of mound; old bearing given in original

Recovery of the S. boundary of
Chains

- fieldnotes ^{have} has disappeared.
- ~~42.25 Dry wash, 3 lks wide, course N.W.~~
- ~~48.76 Dry wash, 3 lks. wide, course N.W.~~
- ~~51.60 Dry wash, 2 lks wide, course N.W.~~
- ~~53.85 Dry wash, 3 lks. wide, course N.W.~~
- ~~58.90 Dry wash, 7 lks. wide, course N.E.~~
- ~~63.70 Dry wash, 17 lks. wide, course N.W.~~
- ~~65.40 Dry wash, 6 lks, wide, course N.W.~~
- ~~75.15 Dry wash, 3 lks. wide, course N.W.~~
- 80.03 Set a granite stone
18 x 8 x 4 ins., 12 ins, in
the ground for the 11th
Mile cor., marked
"U. S. M. R. XI" on N.
face; from which
A mesquite 5 ins. diam.
bears $S 9\frac{3}{4}^{\circ} W$, 86 lks
dist, marked U. S. M. R.
XI B. F.

Camp Lowell Military Reservation

Chains

A mesquite 6 ins. diam.
bears $N1^{\circ}W$, 192 lbs
dist, marked U. S. M. R.

XI B. T., dig pits $24 \times 18 \times 12$
ins. E. and W. of stone
3 ft. dist, and raise
a mound of earth
4 ft. base, 2 ft. high
N. of cor.

I found a faint mound,
the old post, a decayed
palo verde was lying
at a point $N20^{\circ}E$ 105 lbs
dist, no signs of
old bearing trees

Sand rolling

Soil, gravelly loam,
3rd rate

No timber; undergrowth

Resurvey of the S. boundary of
Chains

palo verde, mesquite
and cats claw.

Giant and cholla cacti

East on S. boundary
of Camp Lowell Military
Reservations

Over rolling land
through undergrowth

- 2.05 Dry wash, 5 lks. wide, course N.W.
~~9.42 Dry wash, 3 lks. wide, course N.E~~
 13.00 Dry wash, 40 lks. wide, course N.E
 13.60 Dry wash, 10 lks. wide, course N.W.
 39.95 Set a granite stone 18x10x5
 ins., 12 ins. in the ground
 for $\frac{1}{2}$ mile cor., marked
 U. S. M. R. $\frac{1}{2}$ on N. face,
 from which
 A mesquite 7 ins. diam,

Camp Lowell Military Reservation
Chains

bears $N 84 \frac{1}{2}^{\circ} E$. 137 lks. dist,
marked U. S. M. R. $\frac{1}{2}$ B. J

A mesquite 4 ins. diam.
bears $S 37 \frac{3}{4}^{\circ} W$. 118 lks.
dist. marked U. S. M. R.
 $\frac{1}{2}$ B. J.

I found faint traces
of pits, also decayed
pieces of old post;
no signs of bearing
tree given in the
original field notes.

- ~~41.00~~ Dry wash, 3 lks. wide, course N.W.
46.90 Dry wash, 5 lks. wide, course N.W.
53.40 Dry wash, 20 lks. wide, course N.W.
59.20 Dry wash, 15 lks. wide, course N.W.
79.92 Set a granite stone
20 x 8 x 7 ins., 15 ins. in
the ground for 12th

Resurvey of the S. boundary
Chains

Mile cor., marked
U. S. M. R. XII on N. face,
from which,

A mesquite 4 ins. diam.,
bears $N 79^{\circ} \frac{3}{4} E$, 68 lks.
dist., marked U. S. M. R. XII B. F.

A mesquite 4 ins. diam.,
bears $N 56^{\circ} W$ - 107 lks. dist.,
marked U. S. M. R. XII B. F.,
dig pits $24 \times 18 \times 12$ ins.,
E. and W. of cor. 3 ft
dist., and raise a mound
of earth 4 ft. base, 2 ft
high, N. of cor.

I found a faint mound,
no traces of old bearing
trees, given in original
field notes.
Land rolling

of Camp Lowell Military Reservation

Chains

Soil, gravelly loam;
3rd rate

No timber; undergrowth
palo verde and mesquite.

Cholla cactus.

Sept. 6th 1897.

East on S. boundary
of Camp Lowell Military
Reservation

Over rolling land
through undergrowth

15.35 Dry wash, 6 lks. wide, course N

21.20 Dry wash, 3 lks. wide, course N.W.

36.00 Dry wash, 10 lks wide, course N.E

39.96 Set a granite stone 16x10x3
ins., 11 ins. in the ground
for $\frac{1}{2}$ mile cor., marked
U. S. M. R. $\frac{1}{2}$ on N. face;
from which

Resurvey of the N. boundary Chains

A palo verde 8 ins. diam.,
bears $N74^{\circ}E$, 35 lks. dist.,
marked U. S. M. R. $\frac{1}{2}$ B. J.

A palo verde 8 ins. diam.,
bears $S54^{\circ}E$, 86 lks. dist.,
marked U. S. M. R. $\frac{1}{2}$ B. J.,
dig pits $18 \times 18 \times 12$ ins. E.
and W. of stone, 3 ft. dist.,
and raise a mound of
earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft
high. N. of cor.

I found a dim mound,
also bearing trees, but
without marks.

64.50 Dry wash, 60 lks. wide
course N. E.

66.90 Dry wash, 10 lks. wide, course N. E.

71.50 Road from Rincon to
Tanque Verde, bears N. W. and S. E.

of Camp Lowell Military Reservation

Chains

75.50 Dry wash, 4 lks. wide, course N.S.

77.95 Dry wash, 5 lks wide, course N.S.

79.87 Set a granite stone
 16 x 10 x 5 ins., 11 ins. in
 the ground for 13th
 Mile Cor., marked
 U. S. M. R. XIII on N. face,
 from which

A palo verde 8 ins. diam,
 bears $N 20 \frac{3}{4}^{\circ} E$, 80 lks. dist.,
 marked U. S. M. R. XIII B.S.

A palo verde 8 ins. diam
 bears $S 41 \frac{1}{2}^{\circ} W$, 123 lks. dist.,
 marked U. S. M. R. XIII B.S.

dig pits 24 x 18 x 12 ins.
 E. and W. 3 ft. dist, and
 raise a mound of
 earth 4 ft. base, 2 ft. high
 N. of cor.

Resurvey of the S. boundary
chains

I found a dim. mound
and the old cor. post
decayed S 10° W 65 lks.
dist. with marks obliterated

Land rolling

Soil, gravelly loam,
3rd rate

No timber, undergrowth
palo verde, cats claw
and mesquite

Giant and cholla coacti

East on S. boundary
Camp Lowell Military Reservation
Over rolling land through
undergrowth

3.25 Dry wash, 5 lks. wide, course
North, thence N. W.

16.70 Dry wash, 10 lks. wide, course N. E.

of Camp Lowell Military Reservation

Chains

21.40 Dry wash, 5 lks. wide, course N.W.

32.80 Dry wash, 10 lks. wide, course N.E.

33.90 Dry wash, 30 lks. wide, course N,
thence N.E.

37.50 Dry wash, 3 lks. wide, course N

39.50 Dry wash, 10 lks. wide, course N

39.88 Set a limestone 15x8x7
ins., 10 ins. in the ground,
for $\frac{1}{2}$ mile cor., marked
U. S. M. R. $\frac{1}{2}$ on N. face;
from which

A palo verde, 6 ins. diam.,
bears N $57\frac{1}{4}^{\circ}$ E. 47 lks.
dist., marked U. S. M. R. $\frac{1}{2}$ B.S.

A palo verde, 8 ins. diam.,
bears S $20\frac{1}{2}^{\circ}$ E, 27 lks.
dist., marked U. S. M. R. $\frac{1}{2}$ B.S.

I found faint traces
of old mound, bearing

Resurvey of the S. boundary of
Chains

- tree given in original field notes was not marked
- 41.10 Dry wash, 10 lks. wide, course N.W.
- 47.40 Dry wash, 5 lks. wide, course W.
- 49.60 Dry wash, 30 lks. wide, course N.W.
- 53.53 Wood road, bears N.W. and S.E.
- 59.40 Dry wash, 5 lks. wide, course N.
- 66.00 Dry wash, 5 lks. wide, course N.W.
- 73.90 Dry wash, 3 lks. wide course N.E.
- 79.81 Set a granite ^{stone} 24 x 12 x 10 ins.,
20 ins. in the ground,
for 14th mile cor., marked
U. S. M. R. XIV on N. face;
from which
A mesquite 12 ins. diam.,
bears E. 73 lks. dist.,
marked U. S. M. R. XIV B. J.
A mesquite 5 ins. diam
bears S 68 $\frac{1}{2}$ ° W. 57 $\frac{1}{2}$ lks.

Camp Lowell Military Reservation
Chains

dist; marked U. S. M. R. IV B. J.
A palo verde, 6 ins. diam
bears $N 36^{\circ} W$; 71 lks. dist;
marked U. S. M. R. IV B. J.;
dig pits 24 x 18 x 12 ins.,
E. and W. of stone 3 ft.
dist; and raise a
mound of earth 4 ft.
base, 2 ft. high N. of cor.
I found faint traces
of cor. point; bearing
to bearing tree to the
East is given wrong
in original notes.

Land rolling

Soil, gravelly loam; 3rd rate
No timber; undergrowth
palo verde, mesquite
and cats claw.

Giant, cholla and nopal cacti

Resurvey of the S. boundary of
Chains

East on S. boundary
Camp Lowell Military
Reservation

Over rolling land through
undergrowth

- .76 Dry wash 5 lks wide, course N.E.
 6.86 Dry wash, 40 lks. wide, course N.E.
 8.56 Dry wash, 10 lks. wide, course N.E.
 11.46 Dry wash, 20 lks. wide, course N.E.
 13.90 Dry wash, 20 lks. wide, course N.E.
 17.10 Dry wash, 10 lks. wide, course N.E.
 26.90 Wood road, bears N.W. and S.E.
 39.96 Set a granite stone
 18 x 12 x 7 ins., 12 ins. in
 the ground for $\frac{1}{2}$ Mile
 cor., marked U.S.M.R. $\frac{1}{2}$
 on N. face, from which
 a mesquite 8 ins. diam.,
 bears $S 70 \frac{3}{4}^{\circ} E$, 50 lks.

Camp Lowell Military Reservation
Chains

dist.; marked U. S. M. R. $\frac{1}{2}$
B. T.

A palm verde 8 ins. diam
bears $N 79^{\frac{1}{4}} W.$, 57 lks. dist.;
marked U. S. M. R. $\frac{1}{2}$ B. T.;
dig pits 18 x 18 x 12 ins. E.

and W. of stone, 3 ft.
dist.; and raise a mound
of earth $3^{\frac{1}{2}}$ ft. base,
 $1^{\frac{1}{2}}$ ft. high. N. of cor.

Found decayed pieces
of old cor. 8 lks. N. and
one bearing tree.

40.36 Dry wash, 20 lks. ^{wide}, course N. E.

49.35 Dry wash, 7 lks. wide, course N. E.

51.56 Dry wash, 20 lks. wide, course N. E.

57.94 Wood road, bears N. W. and S. E.

62.30 Dry wash, 10 lks. wide, course N. W.

71.30 Dry wash, 3 lks. wide, course N. W.

Resurvey of the S. boundary of
Chains

75.00 Descend, bears N.W. and S.E.

76.45 Dry wash, 30 lks. wide, courses N.W.

79.86 Set a granite stone
24 x 12 x 6 ins., 20 ins. in
the ground, marked
U. S. M. R. XV on N.
face; from which
A mesquite 14 ins. diam.,
bears S 9° E, 45 lks. dist.,
marked U. S. M. R. XV B. 5
A mesquite 12 ins. diam.,
bears S 54½° E, 78 lks. dist.,
marked U. S. M. R. XV B. 5;
dig pits 24 x 18 x 12 ins.
E. and W. of stone 3 ft
dist., and raise a
mound of earth, 4 ft
base, 2 ft high, N of cor.
I found old bearing.

Camp Lowell Military Reservation
Chains

trees, of which only one was marked; the old cor. post was moved about 3 chs out of position, evidently done by wood choppers.

Land rolling

Soil, gravelly loam;
2nd rate.

Timber, a few mesquite, undergrowth, palo verde, mesquite² & cats claw
giant, cholla and nopal cacti.

East on S. boundary
Camp Lowell Military
Reservation

Over rolling land, through

Resurvey of the S. boundary of
Chains

- undergrowth
- 19.00 Dry wash, 60 lks. wide, course $74^{\circ} 5'$
- 31.00 Old brush enclosure, 3 chs S.
- 39.50 Dry wash, 40 lks. wide, course $84^{\circ} 4'$
- 40.09 Set a granite stone
18 x 12 x 3 ins., 12 ins. in
the ground, marked
U. S. M. R. $\frac{1}{2}$ on N. face;
from which
- A mesquite 10 ins. diam.,
bears $S 53^{\circ} 4' E$, 37 lks. dist.,
marked U. S. M. R. $\frac{1}{2}$ B. T.
- A mesquite 10 ins. diam.,
bears $S 16^{\circ} \frac{1}{2}' W$, 70 lks. dist.,
marked U. S. M. R. $\frac{1}{2}$ B. T.
and raise a mound
of stone $2^{\frac{1}{2}}$ ft. base,
 $1^{\frac{1}{2}}$ ft high, N. of cor.
I found the old bearing

Camp Lowell Military Reservation

Chains

- tree, given in the original field notes, from which I reestablished the old cor.
- 45.00 Dry wash, 60 lks. wide, course N.
- 46.00 Ascend gradually
- 74.40 Dry wash, 30 lks. wide, course N.
- 76.50 Rocky cañon, 40 lks. wide, with running water, course N., and ascend bluff
- 77.00 Top of vertical bluff 40 ft. high
- 79.98 The S.E. cor. or the 16th Mile cor. of Camp Lowell Military Reservation, which is a pine post 4 ins. square, in mound of stone, as described by the Surveyor General Land rolling and mountainous

Resurvey of the S. boundary of
Camp Lowell Military Reservation

Chains

Soil, gravelly loam and rocky;
2nd and 4th rate

Timber, a few mesquites,
undergrowth, mesquite,
and palo verde.

Giant cactus
Mountainous land 33.98 chs.
Sept. 7. 1897

Resurvey of portion of the
E. bdy of Camp Lowell Military Reserva-
tion.

Chains

I find it further necessary
for the proper execution
of the survey of Tps. 14 S.
R. 16 E. to resurvey portion
of the E. boundary of
Camp Lowell Military Reserva-
tion.

September 22. 1897

At 8^h 20^m a. m., l. m. t.,
I set off 32° 13' on the
lat. arc, 0° 2' N., on the
decl. arc, and determine
a true meridian with
the solar, at the S. E.
cor. or 16th Mile cor.
of Camp Lowell Military
Reservation.

Thence, I run
North on E. bdy of

Resurvey of portion of the E. boundary
Chains

Camp Lowell Military
Reservations

Over mountainous land,
descending

- 9.00 Rocky canon 40 lks. wide
course N. W.
- 19.00 Dry wash, 4 lks. wide, course W.;
bottom and ascend
- 24.00 Top of ridge, bears E and W.;
descend
- 30.00 Bottom of ridge
- 40.02 Set a granite stone
16 x 6 x 6 ins., 12 ins. in the
ground for $\frac{1}{2}$ Mile Cor.;
marked U. S. M. R. $\frac{1}{2}$ on
W. face; from which
A mesquite 8 ins. diam.,
bears $N 58\frac{1}{2}^{\circ} E$, 21 lks. dist.,
marked U. S. M. R. $\frac{1}{2}$ B. T.
A mesquite 6 ins. diam., bears
 $N 10^{\circ} W$, 117 lks., dist.; marked

of Camp Lowell Military Reservation

Chains

N. S. M. R. $\frac{1}{2}$ B. T.

Old decayed post lying
on the ground with marks
obliterated, I destroy all
traces of the old cor. post

- 52.00 Dry wash, 40 lks. wide, course N.W.
- 62.50 Dry wash, 35 lks. wide, course
N. E and N.W.
- 69.20 Dry wash, 6 lks. wide, course N.W.
- 76.00 Dry wash, 4 lks. wide, course N.W.
- 77.40 Dry wash, 8 lks. wide, course W.
- 79.90 Enter dry wash, course W.
- 80.20 17th Mile cor., which is

mesquite post 4 ins. sq.,
marked and witnessed
as described by the Surveyor
General

Land rolling and mountains
Soil, gravelly loam, 3rd rate

Resurvey of portion of the E. boundary
Chains

Timber, a few mesquites,
undergrowth, mesquite,
Palo verde.

Giant cactus.
Mountainous land 30 chs.

North on E. boundary
Camp Lowell Military
Reservation

Over rolling land
through undergrowth

1. 70 Dry wash, 4 lks. wide, course W.
3. 00 Dry wash, 4 lks. wide, course W.
6. 80 Dry wash, 6 lks. wide, course N.W.
8. 30 Dry wash, 6 lks. wide, course N.W.
10. 00 Dry wash, 6 lks. wide, course N.W.
15. 70 Dry wash, 8 lks. wide, course N.W.
17. 30 Dry wash, 40 lks. wide, course W.
17. 60 Dry wash, 40 lks. wide, course W.
24. 50 Dry wash, 8 lks. wide, course N.W.

of Camp Lowell Military Reservation

Chains

39.60

Set a granite stone
 18 x 8 x 8 ins., 12 ins., in
 the ground for $\frac{1}{2}$ mile
 cor., marked N. S. M. R. $\frac{1}{2}$
 on W. face; from which
 a mesquite 7 ins. diam.
 bears S. 70° W., 20 lks. dist.,
 marked N. S. M. R. $\frac{1}{2}$ B. I.
 A mesquite 6 ins. diam.
 bears N $8\frac{1}{4}^{\circ}$ E., 33 lks. dist.,
 marked N. S. M. R. $\frac{1}{2}$ B. I.
 I found the old $\frac{1}{2}$ mile
 post 2.80 lks. N 10° W
 standing in a mound
 of stone. I destroyed
 the old cor. post.

55.20

Enter "Tanque Verde Wash"

61.70

Leave "Tanque Verde Wash"
 Course West

Resurvey of portion of the E. boundary
Chains

- 63.20 Brush fence, bears N. E. and S. W.
- 65.25 Road from Tucson to Emilio Carrillo's ranch, bears E. and W.
- 66.00 Road from "Martinez ranch" to Emilio Carrillo's ranch, bears N. W. and S. E.
- 79.20 Road from Tucson to San Pedro Valley, bears N. Easterly and S. Westerly
- 79.65 Set a granite stone 18 x 8 x 4 ins., 12 ins. in the ground for 18th Mile cor., marked U. S. M. R. XVIII on W. face; from which a mesquite 10 ins. diam bears S 85½° E, 170 lks. dist., marked U. S. M. R. XVIII 63.5

of Camp Lowell Military Reservation
Chains

A mesquite 5 ins. diam
bears $S 57 \frac{1}{2}^{\circ} W$, 114 lks.
dist, marked U. S. M. R.
XVIII B. F.

I found a faint trace
of the old mound; no
marks on bearing tree;
no signs of bearing tree
to the West.

Land rolling;
Soil, gravelly loam;
2nd rate
Timber, a few mesquite
and cottonwood trees;
undergrowth, mesquite

North on E. boundary
Camp Lowell Military

Resurvey of portion of the E. boundary
Chains

Reservation

Over rolling land
through scattering under-
growth

13.00 Enter dry wash, 8 lks. wide,
course S. S. E.

13.90 Leave dry wash

25.00 Dry wash, 6 lks. wide, course E

26.50 Set a granite stone
18 x 12 x 4 ins., for closing
cor. and intersection
point of E. bdy of
Camp Lowell Military
Reservation, with N. bdy
of T. 14 S. R. 16 E.,
marked &

C.C. on E.

M.R. on W. faces, from
which

of Camp Lowell Military Reservation
Chains

A mesquite 8 ins. diam.,
bears $S78^{\circ}E$, 66 lks. dist.,
marked U. S. M. R. C. C. B. J

A mesquite 6 ins. diam.,
bears $N68^{\circ}W$, 47 lks., dist.,
marked U. S. M. R. C. C. B. J

I found faint mound
and both of the bearing
trees, as described by the
Surveyor general.

Land rolling

Soil, gravelly loam;
2nd and 3rd rate

Timber, a few mesquite
trees; under growth
mesquite and palo verde
Giant cactus.

Sept. 22. 1897

Note: As I had to re-survey only a portion of the boundaries of Camp Lowell Military Reservation, I used the same marking and system, as used under the original survey.

Philip Contzen
U. S. Deputy Surveyor.

Note - For Preliminary plats see
Book 1, D & H. bds. T. 17 S. R. 25 E.
For Final plats see Book 4,
Subdivisions, T. 17 S. R. 25 E.
For Surveyor General's Certificate of
approval of field notes see close
of subdivisions of T. 17 S. R. 25 E.